

# MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

#### **NOTICE OF ACCEPTANCE (NOA)**

Soprema, Inc. 310 Quadral Drive Wadsworth, OH 44281

#### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

#### **DESCRIPTION:** Soprema Waterproofing Systems

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 09-0112.02 and consists of pages 1 through 26. The submitted documentation was reviewed by Jorge L. Acebo.



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## **ROOFING SYSTEM APPROVAL**

**Category:** Roofing

Sub-Category: Waterproofing Systems

Material: SBS

**Deck Type:** Steel and Concrete

Maximum Design Pressure -457.5 psf.

# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	Dimensions	Test Specification	Product Description
Colvent TG	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen
Corveill 10	39 X 49 (1.3 Sq.)	ASTWI DOTOS	membrane with 1" wide factory applied heat
			weldable strips on back side.
Colvent SA	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen
001, 0110 211	23 11 13 (1.0 54.)	110111120100	membrane with 1" wide factory applied self-
			adhering strips on back side
Elastophene	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen
Sanded	( 1)		membrane sanded on both sides. Applied in hot
			asphalt, cold adhesive or ribbon stripping.
Elastophene	39" x 33' (1sq.)	<b>ASTM D6163</b>	Fiberglass reinforced modified bitumen
Sanded 3.0			membrane sanded on both sides. Applied in hot
			asphalt, cold adhesive or ribbon stripped.
Elastophene PS	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane
			with a plastic burn-off film for heat weld
			bonding to the top side. Applied in hot asphalt,
			cold adhesive or ribbon stripping.
Elastophene SP	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane
2.2mm			with a plastic burn-off film on the bottom and
			sanded on the top. Applied b heat welding or
			ribbon stripping (after removal of plastic burn-
F141	2011 221 (1)	ACTM D(1/2	off film).
Elastophene Flam	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen
			membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene Flam	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen
2.2	37 X +7 (1/2 sq.)	ASTIN DOTOS	membrane covered on both sides with a plastic
2.2			burn-off film. Applied by heat welding.
Elastophene Flam	39" x 33' (1 sq.)	ASTM D6162	Woven fiberglass/polyester composite reinforced
HS FR	(154.)	110111111111111111111111111111111111111	modified bitumen membrane with fire retardants
			and plastic burn-off film on both sides. Applied
			by heat welding.
Elastophene 180	39" x 49' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified
Sanded			bitumen membrane sanded on both sides.
			Applied in hot asphalt, cold adhesive or ribbon
			stripping.



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		Test	Product
<b>Product</b>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
Elastophene 180 PS	39" x 48' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot
Elastophene LS FR GR	39" x 33' (1 sq.)	ASTM D6163	asphalt, cold adhesive or ribbon stripping. Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied
Elastophene HS FR GR	39" x 33' (1 sq.)	ASTM D6162	in hot asphalt, cold adhesive or ribbon stripping. Woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Flam LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam HS FR GR	39" x 33' (1 sq.)	ASTM D6162	Woven fiberglass composite reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 Sanded	39" x 33' (1 sq.) 39" x 26' ( <sup>3</sup> / <sub>4</sub> sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides.  Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopralene 250 Sanded	39" x 33' (1 sq.) 39" x 26' ( <sup>3</sup> / <sub>4</sub> sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides.  Applied in hot asphalt, cold adhesive or ribbon stripping.



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		Test	Product
<b>Product</b>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
Sopralene 180 PS	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom.
Sopralene 180 SP 3.5 mm	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 SP	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top
Sopralene 250 SP	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top
Soprafix [X]	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Sopralene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film, used as a base/ply. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 250	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn- off film).
Sopralene 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).



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		Test	Product
<b>Product</b>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
Sopralene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 250 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralast 50 TV Alu	various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Soprastar Flam	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding.
Soprastar Stick	39" x 33" (1 sq.)	ASTM D6163	Fiberglass reinforced SBS modified bitumen membrane with a release film covered self-adhering bottom side and a reflective white top surface.
UNILAY	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and surfaced with mineral granules. Applied by mechanical attachment, heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Sopralene Flam Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a plastic burn-off film on the top.
Colphene FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, granule surfaced, fiberglass reinforced membranes.
Colphene HR FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, granule surfaced, fiberglass scrim reinforced membranes.
Sopralene Flam Antirock	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded underside and surfaced with colored granules.
Elastocol500	various	ASTM D41	Asphalt primer.
Elastocol 600c	various	ASTM D41	Asphalt primer.



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		Test	Product
<b>Product</b>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
ALSAN Flashing <sup>™</sup>	1.25 gallon pail or 3.75 gallon pail	Proprietary	One part polyurethane/bitumen resin, moisture cure compound for use as a flashing component.
Soprawalk	39" x 26' (3/4 sq.)	Proprietary	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and mineral granules on the top. Applied by hot asphalt, cold adhesive or ribbon stripping.
High Velocity <sup>®</sup> Insulation Adhesive II (HVIA-II)		Proprietary	One part elastomeric urethane foam adhesive.
High Velocity® Insulation Adhesive III (HVIA-III)		Proprietary	Two part elastomeric urethane foam adhesive.
FM Adhesive Squeegee Grade	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Plastomeric bitumen based cold adhesive.
FM Adhesive (VOC) Squeegee Grade	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
SopraDrain		Proprietary	Polypropylene roof drain.



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# **APPROVED INSULATIONS:**

## TABLE 2

Product Name	<b>Product Description</b>	Manufacturer (With Current NOA)
ACFoam-III, ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam Composite	Composite Polyisocyanurate insulation board	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck, DensDeck DuraGuard Fireguard Type X Gypsum Board	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 Plus	Composite Insulation board	Johns Manville Corp.
Fesco Board	Expanded mineral fiber board	Johns Manville Corp.
Multi-Max-3	Polyisocyanurate foam insulation	RMax Operating, LLC
Sopraboard	Mineral fortified asphaltic cored coverboard	Soprema, Inc.
M-Shield	Polyisocyanurate foam insulation	Soprema, Inc.
STYROFOAM ROOFMATE	Extruded Polystyrene Insulation, Type VI	The Dow Chemical Co.
STYROFOAM PLAZAMATE	Extruded Polystyrene Insulation, Type VII	The Dow Chemical Co.
STYROFOAM High Load 60 Insulation	Extruded Polystyrene Insulation, Type VII	The Dow Chemical Co.
Insulfoam EPS	Closed-cell, expanded polystyrene board.	Insulfoam LLC.



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# **APPROVED FASTENERS:**

## TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Tri-Fix Fastening System	Fastening system for base sheet attachment to lightweight concrete, gypsum or cementitious wood fiber decks.	3" diameter plate with various length fasteners	Soprema, Inc.
2.	Soprema #12, #14 & #15 Fasteners	Fasteners for membrane or insulation attachment to wood, steel or concrete decks.	Various	Soprema, Inc.
3.	Dekfast #12, #14 & #15 HS Fastener	Insulation fastener		SFS Intec, Inc.
4.	Dekfast Galvalume Steel Hex Plate	Galvalume steel plate	2 <sup>7</sup> / <sub>8</sub> " x 3 <sup>1</sup> / <sub>4</sub> "	SFS Intec, Inc.
5.	Dekfast Dekflat Round Plastic Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec, Inc.
6.	OMG AccuTrac Hextra Fasteners	Insulation fastener for wood, steel and concrete.	Various	OMG, Inc.
7.	OMG Accutrac Plate	Galvalume square stress plate	3" square	OMG, Inc.
8.	OMG Flat Bottom	Galvalume stress plate.		OMG, Inc.
9.	Metal Plate OMG 3" Galvalume Steel Plate	Galvalume stress plate.	3" square 3" round	OMG, Inc.
10.	OMG Fastener #12, #14 & #15	Insulation fastener.	Various	OMG, Inc.
11.	OMG 3 in. Round Metal Plates	Galvalume steel plate	3" round	OMG, Inc.
12.	OMG Plastic Plate	Polypropylene stress plate	3.25" round	OMG, Inc.
13.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
14.	Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
15.	Trufast 3" Metal Insulation Plate	Galvalume steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
16.	Galvalume Steel 3" Round	Galvalume steel plate	3" round	SFS Intec, Inc.
17.	Soprema 3" Round Insulation Plate	Stress plate	3" diameter	Soprema, Inc.
18.	Soprafix 2-3/8" SB Stress Plate	Stress plate	2-3/8" diameter	Soprema, Inc.



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# **APPROVED SURFACING/COATING OPTIONS:**

## TABLE 4

System Number	Manufacturer	Application
1.	Generic	Gravel applied at 40lbs.bs/sq., adhered with flood coat of asphalt at 60 lbs./sq.
2.	Generic	Slag applied at 300 lbs./sq., adhered with flood coat of asphalt at 60 lbs./sq.
3.	Soprema, Inc.	Gravel applied at 400 lbs./sq., adhered with FM Adhesive or FM Adhesive (VOC) at 4 gal./sq.
4.	Karnak Corporation	Karnak #97 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal./sq.
5.	Soprema, Inc.	Cural Aluminizer applied at an application rate of 2 gal./sq.
6.	Thermo Manufacturing Systems, LLC	Super Prep Roof Coating applied in two coats at an application rate of 1.5 gal./sq./coat.
7.	United Coatings Manufacturing Company	Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq., and one finish coat at a rate of 1.5 gal./sq.
8.	Insulating Coatings Corporation	Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat.
9.	Henry Company	HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat.
10.	National Coating Corp.	Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat.
11.	Generic	Semi-ceramic coated colored granules.



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# **EVIDENCE SUBMITTED:**

Test Agency/Identifier	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	1W8A1.AM	FM 4470	07/15/93
J	1Z3A6.AM	FM 4470	04/27/95
	2D0A0.AM	FM 4470	08/15/97
	3026028	FM 4470	05/25/06
	3028631	FM 4470	08/09/07
	3029098	FM 4470	10/25/07
Underwriters Laboratories, Inc.	R11436	UL 790	06/18/13
Dynatech Engineering Corp.	10.94.27	TAS 114	10/27/94
, c c 1	2491-04.95	TAS 114	01/04/95
Exterior Research & Design, LLC	2003.02.97-1	TAS 114	02/15/97
	2003-2.04.97-1	TAS 114	04/15/97
	2002.07.97-1	TAS 114	08/15/97
	2755.09.02	TAS 114	10/19/02
	2761.09.03	TAS 114	09/02/03
	2761.10.03-2	TAS 114	10/03/03
	2757.02.05	Physical Properties	02/03/05
Trinity   ERD	S6740.11.07	ASTM D6163	11/02/07
	S10950.04.10	Physical Properties	04/06/10
	S11440.06.10	ASTM D4798 & TAS 110	06/01/10
	S11440.01.11-R1	ASTM D6164	06/07/12
	S11440.11.10-4	ASTM D2178	11/17/10
	S11440.11.10-3-R1	ASTM D4601	01/30/13
	S11440.12.10-1-R1	ASTM D6163	06/07/12
	S32700.12.10-R1	ASTM D6162	03/15/13
	S35860.12.11-1	ASTM D2178	12/12/11
	S35860.12.11-2	ASTM D4601	12/12/11
	S35860.05.12-1-R2	ASTM D6163	03/14/13
	S35860.05.12-2-R2	ASTM D6164	03/14/13
	S35860.05.12-3-R1	ASTM D6164	03/14/13
IRT of S. Florida, Inc.	01-002	TAS 114	01/21/01
ITS / Warnock Hersey		ASTM D5147	05/27/93
PRI Construction Materials	SOP-049-02-01	ASTM D1644/D2196	05/31/12
Technologies, LLC	SOP-043-02-01	ASTM D4601	02/27/12
	SOP-042-02-01	ASTM D4601	02/27/12
	SOP-041-02-01	ASTM D2178	02/27/12
	SOP-040-02-01	ASTM D2178	02/27/12
	SOP-010-02-01.03	TAS-138	07/26/11
	SOP-050-02-01	ASTM D3019	07/12/12
Atlantic & Caribbean Roof Consulting	ACRC# 08-0359	TAS 114	06/20/08



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#### **APPROVED APPLICATIONS:**

**Membrane Type:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 1:** Waterproofing System for Terrace/Plaza Decks, Planters or Traffic Areas

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ACFoam-III, H-Shield (flat or tapered) Minimum 1.5" thick	2, 3, 6, 10, 13, 14	1:2 ft <sup>2</sup>
ACFoam Composite, ENRGY 3 Plus (flat or tapered) Minimum 1.5" thick	2, 3, 6, 10, 13, 14	1:4 ft <sup>2</sup>
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, EMinimum 2" thick	I-Shield (flat or tapered) 2, 3, 6, 10, 13, 14	1:4 ft <sup>2</sup>
ENRGY 3, ENRGY 3 25 PSI (flat or tapered) Minimum 1.4" thick	2, 3, 6, 10, 13, 14	1:2.67 ft <sup>2</sup>
DensDeck Minimum ¼" thick	2, 3, 6	1:4 ft <sup>2</sup>
DensDeck DuraGuard Fireguard Type X Gypsum Board Minimum 5/8" thick	2, 3, 6	1:4 ft <sup>2</sup>
Fesco Board Minimum ¾" thick	2, 3, 6, 10, 13, 14	1:2 ft <sup>2</sup>
Approved High Density Wood Fiberboard Minimum 1" thick	2, 3, 6, 10, 13, 14	1:4 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to top of composite board or top of

cover board in insulation assembly.

**Base Sheet:** Sopralene Flam 180 or 250, heat welded.

**Top Sheet:** Sopralene Flam Antirock, Sopralene Flam 180 GR heat welded.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water

maybe maintained for a period longer than 24 hours if required.



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waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

**Drain Board:** SopraDrain (for planters only)

**Surfacing:** For Terrace/Plaza Deck: Mortar set tile or paver system

**For Planters:** Soil or Sand

For Traffic Areas: Mortar set exterior traffic grade surface tile.

**Maximum Design** 

**Pressure:** -52.5 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 2:** Waterproofing System for Terrace/Plaza Decks, Planters or Traffic Areas

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck Minimum ¼" thick	2, 3, 10	1:4 ft²
DensDeck DuraGuard Fireguard Type X Gypsum Board		
Minimum 5/8" thick	2, 3, 10	1:4 ft <sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Intermediate Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Dow Chemical ROOFMATE or PLAZAMATE	,	·
Minimum 1.5 thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Approved Perlite Minimum <sup>3</sup> / <sub>4</sub> " thick	N/A	N/A

Note: Intermediate and top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft², allow asphalt to cool to 225°-250°F before placement of insulation. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to top of composite board or top of

cover board in insulation assembly.

**Base Sheet:** Sopralene Flam 180 or 250, heat welded.

**Top Sheet:** Sopralene Flam Antirock, Sopralene Flam 180 GR, heat welded.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water

maybe maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

**Drain Board:** SopraDrain (for planters only)

**Surfacing:** For Terrace/Plaza Deck: Mortar set tile or paver system

For Planters: Soil or Sand

**For Traffic Areas:** Mortar set exterior traffic grade surface tile.

**Maximum Design** 

**Pressure:** -45 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck:** 18-22 ga. Grade 33 Steel decking fastened 6" o.c. with two Traxx/5 fasteners and

0.75" diameter washers to supports spaced maximum 6' o.c. Deck side laps are

fastened maximum 13" o.c. with Traxx/1 fasteners.

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 3:** Waterproofing System for Terrace/Plaza Decks, Planters or Traffic Areas

#### All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, H-Shield, M-Shield, ENRGY 3, ISO 95+	,	·
Minimum 1.5" thick	N/A	N/A
Middle Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck (staggered from base layer)	,	•
Minimum 0.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Sopraboard (staggered from middle layer)		
Minimum 0.25" thick	2 (min #14)	1:4

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

**Base Sheet:** One ply of Soprafix [X] or Sopralene Flam 250, heat welded to insulation with a

minimum 6" wide lap, then fastened to the deck as described below:

**Fastening #1:** Attach base sheet using Soprafix 2-3/8" SB Stress Plates and Soprema #15

Fasteners in rows spaced maximum 18" o.c., with fasteners spaced maximum 6"

o.c. within each row.

(Meets Maximum Design Pressure of -157.5 psf, See General Limitation #7)

**Fastening #2:** Attach base sheet using Soprafix 2-3/8" SB Stress Plates and Soprema #15

Fasteners in rows spaced maximum 18" o.c., with fasteners spaced maximum 12"

o.c. within each row.

(Meets Maximum Design Pressure of -60 psf, See General Limitation #7)

**Fastening #3:** Attach base sheet using Soprafix 2-3/8" SB Stress Plates and Soprema #15

Fasteners in rows spaced maximum 12" o.c., with fasteners spaced maximum 12"

o.c. within each row.

(Meets Maximum Design Pressure of -157.5 psf, See General Limitation #7)

Ply Sheet: Sopralene Flam 180, Sopralene Flam 250, heat welded with minimum 3" wide lap.



NOA No.: 13-0425.08 Expiration Date: 09/18/14 Approval Date: 09/12/13 Page 14 of 26 **Membrane:** Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 250 FR GR,

heat welded with minimum 3" wide lap.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

**Maximum Design** 

**Pressure:** See Fastening Requirements Above.



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**SBS Membrane Type:** 

**Preparation:** 

Deck Type 3I: Concrete Decks, Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 4:** Tile Finish over Membrane.

All General and System Limitations apply.

All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and **Substrate** 

clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to deck at a minimum rate of 100-

 $150 \text{ ft}^2/\text{gal}.$ 

**Base Sheet:** One or more plies of Elastophene Flam, heat welded according to manufacturer's

application instruction.

**Top Sheet:** Elastophene Flam LS FR GR, heat welded according to manufacturer's

application instruction.

Required, and shall be performed in accordance with ASTM D 5957. Water **Integrity Test:** 

maybe maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

**Insulation:** Min. 2" thick, minimum 60 psi, Dow Chemical STYROFOAM High Load 60

> Insulation adhered to membrane with High Velocity Insulation Adhesive II applied in <sup>3</sup>/<sub>4</sub>" wide strips spaced 12" o.c. or hot asphalt is applied to the

membrane at a rate of 20-40 lbs./100 ft<sup>2</sup> and allowed to cool to 225°-250°F before

placement of extruded polystyrene boards.

**Surfacing:** Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and

> minimum ½" thickness) tiles shall be embedded into dry-set Portland Cement applied with a 1/4" square notched trowel. Tiles should then be carefully

embedded in the mortar bed and tapped in place to insure full solid bearing. Tile

shall be installed in accordance with applicable Building Code.

**Maximum Design** 

Pressure: -277.5 psf. (See General Limitation #9)



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**Deck Type 3I:** Concrete Decks, Non-Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 5:** Tile Finish over Membrane.

All General and System Limitations apply.

**Substrate** All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and

**Preparation:** clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants. Substrate shall be smooth, free of voids, spalled

areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to deck at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Elastophene Flam or Sopralene Flam 180, 250, heat welded

according to manufacturer's application instruction.

**Top Sheet:** Elastophene Flam LS FR GR, Sopralene Flam 180 GR or Sopralene Antirock,

heat welded according to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water

maybe maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

**Surfacing:** Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and

 $\mbox{minimum $\frac{1}{2}$" thickness) tiles shall be embedded into dry-set Portland Cement}$ 

applied with a 1/4" square notched trowel. Tiles should then be carefully

embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

**Maximum Design** 

**Pressure:** -457.5 psf. (See General Limitation #9)



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**SBS Membrane Type:** 

Deck Type 3I: Concrete Decks, Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 6:** Concrete Paver Finish over Membrane.

All General and System Limitations apply.

All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and **Substrate** 

**Preparation:** clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants. Substrate shall be smooth, free of voids, spalled

areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to deck at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Sopralene Flam 180 or 250, heat welded according to

manufacturer's application instruction.

**Top Sheet:** Sopralene Flam 180 GR, Sopralene Flam 180, 250 FR GR, heat welded according

to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water

maybe maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

Min. 1.5" thick, minimum 60 psi, Dow Chemical STYROFOAM High Load 60 Insulation:

> Insulation adhered to membrane with High Velocity Insulation Adhesive II applied in <sup>3</sup>/<sub>4</sub>" wide strips spaced 12" o.c. or hot asphalt is applied to the

membrane at a rate of 20-40 lbs./100 ft<sup>2</sup> and allowed to cool to 225°-250°F before

placement of extruded polystyrene boards.

**Surfacing:** Concrete pavers (24" x 24" x 1.5" thick), 4000 psi minimum shall be embedded

> into dry-set Portland Cement applied with a 1/4" square notched trowel. Pavers should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable

Building Code.

**Maximum Design** 

**Pressure:** -340 psf. (See General Limitation #9)



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**SBS Membrane Type:** 

Deck Type 3I: Concrete Decks, Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

One or more layers of insulation adhered with approved adhesive **System Type 7:** 

All surfaces must be dry, smooth, free of depressions, voids and protrusions, and **Substrate Preparation:** 

clean and free of any non-compatible curing compounds, foam release agents

and other surface contaminants.

Min 1.5" thick Insulfoam EPS applied in High Velocity Insulation Adhesive II **Insulation:** 

in <sup>3</sup>/<sub>4</sub>" diameter strips spaced 12" o.c.

**Base Layer:** One layer of Sopralene Flam Stick\*, Sopralene Stick, Colvent SA, self-adhered.

\* Requires heat welded ply or cap membrane.

**Primer:** Sand surfaced base membranes are primed with Elastocol 500, Elastocol 600c

applied at a rate of 1 gal./sq.

(Optional) Elastocol 500, Elastocol 600c applied at a rate of 1 gal./sq., to top

surface of any base or ply sheet prior to application of next layer

Ply Layer: One or more layers of Sopralene Flam Stick\*, Sopralene Stick, self-adhered to

(Optional) primed sand surfaced base membrane

Or

Elastophene Flam\*, Elastophene Flam 2.2 mm\*, Elastophene Flam HS FR\*, Elastophene SP, Elastophene 180 SP, Sopralene Flam 180, Sopralene 180 SP, Sopralene 180 SP 3.5 mm, Sopralene Flam 250\*, Sopralene 250 SP, heat welded

Or

Elastophene Sanded, Elastophene Sanded 3.0 mm, Elastophene PS\*, Elastophene 180 Sanded, Elastophene 180 PS\*, Sopralene 180 Sanded,

Sopralene 180 PS\*, Sopralene 250 Sanded, adhered in hot asphalt at 25 lbs./sq.

to sand surfaced base membrane.

\*Requires heat welded cap membrane.

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Top Layer:

One layer of Colphene HR FR GR, Colphene FR GR , self-adhered to primed sand surfaced base or ply membrane

Or

Soprastar Stick, self-adhered to Elastocol 600c primed sand surfaced base or ply membrane.

Or

Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Elastophene Flam HS FR GR, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, UNILAY, Sopralast 50 TV Alu, heat welded

Or

Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Elastophene HS FR GR, Sopralene 180 FR GR, Sopralene 250 FR GR, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

**Integrity Test:** 

Required, and shall be performed in accordance with ASTM D 5957. Water may

be maintained for a period longer than 24 hours if required.

**Inspection:** 

Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

**Surfacing:** 

Surfacing is Optional on granular surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

**Maximum Design** 

**Pressure:** 

-75 psf. (See General Limitation #9.)



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**Deck Type 3:** Concrete Decks, Non-Insulated

**Deck Description:** Min. 2500 psi, dual slab construction (roof plaza and parking decks)

**System Type 8:** Membranes applied directly to substrate.

All General and System Limitations apply.

**Substrate** All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and

**Preparation:** clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants. Substrate shall be smooth, free of voids, spalled

areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500, 600c or ASTM D 41 primer applied to deck at a rate of 100-150

ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Sopralene Flam 180 or 250, heat welded according to

manufacturer's application instruction.

**Top Sheet:** Sopralene Flam 180 GR, Sopralene Flam 180, 250 FR GR or Sopralene Antirock,

heat welded according to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water

maybe maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

**Insulation:** Min. 1.5" thick, minimum 60 psi, Dow Chemical STYROFOAM High Load 60

Insulation adhered to membrane with High Velocity Insulation Adhesive II applied in <sup>3</sup>/<sub>4</sub>" wide strips spaced 12" o.c. or hot asphalt is applied to the

membrane at a rate of 20-40 lbs./100 ft<sup>2</sup> and allowed to cool to 225°-250°F before

placement of extruded polystyrene boards.

Protection Board and/or Drainage Layer: (Optional)

(Optional)

**Board** Install drainage board over top ply membrane

**Surfacing:** Structural Concrete Slab, minimum 2500 psi, in compliance with applicable

Building Code.

**Maximum Design** 

N/A (Topping concrete slab shall comply with applicable Building Code

**Pressure:** requirement.)



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**Deck Type 3:** Concrete Decks, Non-Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 9:** Membranes adhered to primed substrate.

**Substrate** All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

**Preparation:** clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

**Primer:** Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft<sup>2</sup>/gallon.

**Base Layer:** One layer of Sopralene Stick, Colvent SA, Self-adhered

**Primer:** Elastocol 500, Elastocol 600c applied at a rate of 1 gal./sq., to top surface of any

(Optional) base or ply sheet prior to application of next layer

Ply Layer: One or more layers of Elastophene Sanded, Elastophene Sanded 3.0 mm,

(Optional) Elastophene PS, Elastophene 180 Sanded, Sopralene 180 Sanded, Sopralene 250

Sanded, applied in asphalt at a rate of 25 lbs./sq. to sand surface base membrane

**Top Layer:** One layer of Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR,

Elastophene HS FR GR, Sopralene 180 FR GR, Sopralene 250 FR GR, applied in

hot asphalt at a rate of 25 lbs./sq.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water may

be maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

**Surfacing:** None

**Maximum Design** 

**Pressure:** -240 psf. (See General Limitation #9.)



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**SBS Membrane Type:** 

Deck Type 3: Concrete Decks, Non-Insulated

Terrace/Plaza Deck, Planter, Traffic **Deck Description:** 

**System Type 10:** Membranes adhered to primed substrate.

All surfaces must be dry, smooth, free of depressions, voids and protrusions, and **Substrate Preparation:** 

clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft<sup>2</sup>/gallon. **Primer:** 

**Base Layer:** One layer of Sopralene Flam Stick\*, Sopralene Stick, Colvent SA, Self-adhered

\*Requires heat welded ply or cap membrane

Primer: Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal./sq., to top

surface of any base or ply sheet prior to application of next layer (Optional)

Ply Layer: One or more layers of Elastophene Flam\*, Elastophene Flam 2.2 mm\*,

Elastophene Flam HS FR\*, Sopralene Flam 180\*, Sopralene Flam 250\*, heat (Optional)

welded

\*Requires heat welded cap membrane.

One layer of Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR Top Layer:

> GR, Elastophene Flam FR+ GR, Elastophene Flam HS FR GR, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, heat

welded.

Required, and shall be performed in accordance with ASTM D 5957. Water may **Integrity Test:** 

be maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

None **Surfacing:** 

**Maximum Design** 

**Pressure:** -270 psf. (See General Limitation #9.)

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Deck Type 3: Concrete Decks, Non-Insulated

Terrace/Plaza Deck, Planter, Traffic **Deck Description:** 

**System Type 11:** Membranes adhered to primed substrate.

All surfaces must be dry, smooth, free of depressions, voids and protrusions, and **Substrate** 

clean and free of any non-compatible curing compounds, foam release agents and **Preparation:** 

other surface contaminants.

Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft<sup>2</sup>/gallon. **Primer:** 

**Base Layer:** One layer of Colvent TG is heat welded

Elastocol 500, Elastocol 600c applied at a rate of 1 gal./sq., to top surface of any **Primer:** 

base or ply sheet prior to application of next layer (Optional)

One or more layers of Elastophene Sanded, Elastophene Sanded 3.0 mm, Ply Layer:

Elastophene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, applied (Optional)

in asphalt at a rate of 25 lbs./sq. to sand surfaced base membrane.

One layer of Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Top Layer:

Elastophene HS FR GR, Sopralene 180 FR GR, Sopralene 250 FR GR applied in

asphalt at a rate of 25 lbs./sq. to sand surfaced base or ply membrane.

Required, and shall be performed in accordance with ASTM D 5957. Water may **Integrity Test:** 

be maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

**Surfacing:** None

**Maximum Design** 

**Pressure:** -262.5 psf. (See General Limitation #9.)



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**Preparation:** 

**Deck Type 3:** Concrete Decks, Non-Insulated

**Deck Description:** Terrace/Plaza Deck, Planter, Traffic

**System Type 12:** Membranes adhered to primed substrate.

**Substrate** All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

**Primer:** Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft<sup>2</sup>/gallon.

**Base Layer:** One layer of Colvent TG is heat welded

**Primer:** Elastocol 500, Elastocol 600c applied at a rate of 1 gal./sq., to top surface of any

(Optional) base or ply sheet prior to application of next layer

Ply Layer: One or more layers of Elastophene Flam, Elastophene Flam 2.2 mm, Elastophene

(Optional) Flam HS FR, Elastophene SP, Elastophene 180 SP, Sopralene Flam 180,

Sopralene 180 SP, Sopralene 180 SP 3.5 mm, Sopralene Flam 250, Sopralene 250

SP, heat welded

**Top Layer:** One layer Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR

GR, Elastophene Flam FR+ GR, Elastophene Flam HS FR GR, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, heat

welded

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water may

be maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: None

**Maximum Design** 

**Pressure:** -292.5 psf. (See General Limitation #9.)

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#### **GENERAL LIMITATIONS:**

- Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by Soprema. Soprema shall supply a list of approved applicators to the authority having jurisdiction.
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

#### Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as fieldtested, are below 275 lbf. Insulation attachment shall not be acceptable.
- Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
- 11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.
- 12. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.

#### END OF THIS ACCEPTANCE



NOA No.: 13-0425.08 **Expiration Date: 09/18/14** Approval Date: 09/12/13

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